RV Brooks McCall Data Summary
Cruise 6/24/2010

Review Date 6/25/2010

Summary:

This sampling report presents data collected from the RV Brooks McCall for the period of 6/24/2010. The RV Brooks McCall will alternate with the Ocean Veritas in the collection of subsurface data associated with the Deepwater Horizon oil spill. Stations occupied during this reporting period include BM103 – BM106.

Station BM103 was located 2 km west of the well head. BM104 was located 5 km west of the wellhead. BM105 was located 7 km west of the wellhead and BM106 was located 5 km west-southwest of the well head. The day's sampling strategy was to try and locate the plume and follow it to its outer margins. A total of 4 CTD casts were completed.

The CTD array data showed fluorescence signals at stations BM103, BM104 and BM106. No significant fluorescence signals at Station BM105.

A total of 13,808 gallons of subsurface dispersant was used on 6/24/2010. The average injection rate was not provided.

Rotox tests were started today for samples BM103-106 with results due to be reported on 25 June, 2010. The results will be submitted via email when they are completed. Rotox results were completed for sites BM 100-102 today and have been submitted. The vessel also collected sixty-four (64) samples for TPH and sixty-four (64) samples for VOC analysis, including duplicates.

CTD Fluorometry & Dissolved Oxygen:

The CTD instrument includes a dissolved oxygen probe. The Brooks McCall typically reports D.O. data in mg/l, while the Ocean Veritas reports D.O. data in ml/l. Stations BM103 and BM106 showed fluorescence spikes at approximately 1150 meters. BM104 had fluorescence spikes between approximately 1100 meters and 1200 meters. All stations showed no drops in D.O.

LISST Data:

The LISST data was collected at the four sampled stations. Sixty-three (63) LISST samples were collected from all four sample locations. Station BM103 showed an increased small particle concentration near the surface (>100 m). Stations BM104, 105 and 106 did not show increased small particle concentrations.

Toxicity Testing (Rototox Assay) (data collected from 6/24):
Rotox tests were started today for samples BM103-106 with results due to be reported on 25 June, 2010. Rotox results were completed for sites BM 100-102 today and have been submitted.

Chemical Analyses (TPH and VOCs) (data collected from 6/24):
Sixty-four (64) samples were collected for TPH analysis and sixty-four (64) samples were collected for VOC analysis. No data were provided for review at this time due to laboratory lag time.